ABSTRACT

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Method of determining the velocity V and anellipticity η parameters for processing seismic traces in a common midpoint (CMP) gather comprising: -a preliminary step to define a plurality of nodes (dtn, τ_o), for each node (dtn, τ_o) defined in
10 the preliminary step, the following steps: -for static NMO correction of traces in the CMP gather as a function of the values of the said parameters dtn and τ_o at the node considered, and calculation of the semblance function associated with the said NMO correction for the node considered; and -for each
15 picked time t_o, a step including determination of the maximum semblance node (dtn (t_o), τ_o (t_o)), -and a final step to convert the dtn (t_o) and τ_o (t_o) parameters, so as to obtain the velocity t_o) and anellepticity η (t_o) laws.